UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/713,929	11/16/2000	Hideki Tai	JP919990195	4074

7590   03/19/2004

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EXAMINER
KIANERSI, MITRA

ART UNIT	PAPER NUMBER
2143	5

DATE MAILED: 03/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>03</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *16 November 2000*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-9* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-9* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *16 November 2000* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. <u>11-327276</u>.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

Claims 1-9 have been examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by

Robertson et al. (US 2002/0178026).

1.   As per claim 1, a mobile agent management apparatus comprising: a plurality of

agent servers (corresponds to entity servers 2902A and 2902B) and a registration

server for maintaining location information mobile agents, (mobile agent approach 0185)

and (discover and register with local registrars [0230]) wherein each of said plurality of

agent servers comprises: means for maintaining history of movement of each of said

mobile agents; (life cycle of cached instances as they move in and out of cache,[0295])

and request means for Periodically generating requests for updating location

information of each of said agents to renew ion information at said registration server.

(mapping between client application, [0120]) and (updating the enterprise repository

with registration information, [0266])

2.   As per claim 2, the apparatus wherein each of said agent servers further

comprises a counter for accumulating a count of the number of movements of

corresponding mobile agents. (a counter is initialized based on the duration time,

[0270])

3.   As per claim 3, the apparatus wherein each of said agent servers further comprises comparator means for comparing the in said counter with a predetermined threshold. (corresponds to comparing the type and attributes for the services running in the enterprise, [0270])

4.   As per claim 4, the apparatus wherein the request generator of each of said agent servers generates a request to registration server for updating location, information when an accumulated number of movements of a corresponding mobile agent exceeds the predetermined threshold. (corresponds to when the number of services being run exceeds the threshold, [0270])

5.   As per claim 5, the apparatus wherein said registration server comprises at least one register for maintaining accumulated number of movements and locations of each of mobile agents in an associated manner and renews said location information of each of mobile agents only upon receipt of requests for updating location information associated with a higher accumulated number of movement. (corresponds to "Run Dispatching Rules", [0532]) and (upon receipt of the work item, [0533])

6.   As per claim 6, a method for managing locations of mobile agents by a plurality of agent servers and a registration server for maintaining locations of mobile agents comprising the steps of on each of said agent servers; maintaining history of movement of each of said mobile agents; and (life cycle of cached instances as they move in and out of cache, [0295])
periodically generating requests for updating and deleting registries; and at said registration server, renewing location information of each of said mobile agents kept by said registration server with said requests for updating and deleting. (corresponds to renewing and updating the global lookup with enterprise lead renewal information

7.   As per claim 7, the method wherein each of said agent servers accumulates a count of number of movements of corresponding mobile agents. (corresponds to when a counter is initialized, based on the counter time, [0270])

8.   As per claim 8, the method further comprising: comparing accumulated number of movements to a threshold number of movements. (corresponds to comparing the

type and attributes for the services running in the enterprise, [0222]) and see also [0270]
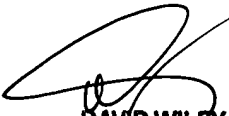
9.   As per claim 9, the method wherein said generating is done when accumulated number of movements exceeds threshold number of movements. (corresponds to the number of services being run exceeds the threshold, [0270])

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mitra Kianersi whose telephone number is (703) 305-4650. The examiner can normally be reached on 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on (703) 308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mitra Kianersi
March/15/2004

DAVID WILEY
SUPERVISORY PATENT EXAMINER
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